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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/632,496	07/31/2003	Chang-Hyun Lee	4591-352	4410
20575	7590 08/20/2004		EXAMINER	
MARGER JOHNSON & MCCOLLOM PC 1030 SW MORRISON STREET			KANG, DONGHEE	
	ORRISON STREET D, OR 97205		ART UNIT	PAPER NUMBER
	,		2811	
			DATE MAILED: 08/20/2004	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	<del></del>	Application No.	Applicant(s)	
Office Action Summary		10/632,496	LEE ET AL.	
		Examiner	Art Unit	
		Donghee Kang	2811	A CO
Period fo	The MAILING DATE of this communication ap or Reply		with the correspondence addre	9SS
THE I - Exter after - If the - If NO - Failu Any I	ORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a replace period for reply is specified above, the maximum statutory period are to reply within the set or extended period for reply will, by statut the reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a oly within the statutory minimum of the will apply and will expire SIX (6) Mo e, cause the application to become	a reply be timely filed  nirty (30) days will be considered timely.  DNTHS from the mailing date of this comn  ABANDONED (35 U.S.C. § 133).	nunication.
Status				
1)🛛	Responsive to communication(s) filed on 31 5	July 2003.		
		s action is non-final.		
3)🖂	Since this application is in condition for allowa	ance except for formal ma	atters, prosecution as to the m	nerits is
	closed in accordance with the practice under	Ex parte Quayle, 1935 C	.D. 11, 453 O.G. 213.	
Dispositi	on of Claims			
4) 🛛	Claim(s) 1-21 is/are pending in the application	n.		
•	4a) Of the above claim(s) is/are withdra		. •	
_	Claim(s) 1 and 7-21 is/are allowed.			
6)□	Claim(s) is/are rejected.			
<b>7</b> )⊠	Claim(s) 2-6 is/are objected to.			
8)	Claim(s) are subject to restriction and/	or election requirement.		
Applicati	on Papers		•	
9)	The specification is objected to by the Examin	er.	-	
10)	The drawing(s) filed on is/are: a) ac	cepted or b) objected t	o by the Examiner.	
	Applicant may not request that any objection to the	e drawing(s) be held in abey	ance. See 37 CFR 1.85(a).	
	Replacement drawing sheet(s) including the correct	ction is required if the drawir	ng(s) is objected to. See 37 CFR	1.121(d).
11)	The oath or declaration is objected to by the E	examiner. Note the attach	ed Office Action or form PTO	-152.
Priority ι	ınder 35 U.S.C. § 119			
a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	nts have been received.  Into have been received in ority documents have been au (PCT Rule 17.2(a)).	Application No. <u>10/215,504</u> . en received in this National St	age
2) Notice 3) Information	e of References Cited (PTO-892) se of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date 11/28/03 &3/19/04.	Paper N	v Summary (PTO-413) o(s)/Mail Date of Informal Patent Application (PTO-1	52)

# **DETAILED ACTION**

#### **Priority**

1. This application appears to be a division of Application No. 10/215,504, filed 08-09-02. A later application for a distinct or independent invention, carved out of a pending application and disclosing and claiming only subject matter disclosed in an earlier or parent application is known as a divisional application or "division." The divisional application should set forth the portion of the earlier disclosure that is germane to the invention as claimed in the divisional application.

#### Information Disclosure Statement

2. Acknowledgment is made of receipt of applicant's Information Disclosure Statement (PTO-1449) field November 28, 2003 & March 19, 2004.

#### **Drawings**

3. Figure 1 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

#### **Specification**

Application/Control Number: 10/632,496

Art Unit: 2811

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

The examiner suggests that "Method of forming a non-volatile memory device having floating trap type memory cell".

# Claim Objections

5. Claims 2-6 are objected to because of the following informalities:

Re claim 2, the phrase "(g) removing the second conductive layer and the triple layer of the respective high- and low-voltage type gate patterns" is misdescriptive because the high- and low-voltage type gate patterns do not have the second conductive layer and the triple layer. The second conductive layer and the triple layer are formed only on the exposed substrate in the cell array region (see step e). Appropriate correction is required.

Claims 3-6 are objected because each includes the limitations of independent claim 2.

# Allowable Subject Matter

6. Claims 1 & 7-21 are allowed.

The following is an examiner's statement of reasons for allowance:

Prior art of record neither teach nor make it obvious as a whole the claimed limitation of the instant application, as recited in claims 1, 7, 12 & 16, either taken alone or in combination.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 2811

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

# Conclusion

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Donghee Kang whose telephone number is 571-272-1656. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eddie C Lee can be reached on 571-272-1732. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Donghee Kang, Ph.D.
Primary Examiner

Art Unit 2811

dhk